



US008393376B2

(12) **United States Patent**
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(10) **Patent No.:** **US 8,393,376 B2**
(45) **Date of Patent:** ***Mar. 12, 2013**

(54) **DRYWALL TRIM AUTO-FOLDER, MASTIC APPLICATOR AND CUTTER**

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,400,698	A	5/1946	Lissa	
3,178,978	A *	4/1965	Eisenman	83/208
3,392,895	A *	7/1968	Ellner et al.	226/138
3,435,251	A *	3/1969	Ellner	307/115
3,496,698	A	2/1970	Wichmann	
3,558,030	A *	1/1971	Hempel et al.	226/135
3,750,728	A	8/1973	Stark	
4,127,434	A *	11/1978	Lass	156/526
4,652,331	A *	3/1987	Plasencia	156/526
5,730,819	A *	3/1998	Retti	156/71
6,449,855	B1 *	9/2002	Louis	33/286
6,565,252	B2 *	5/2003	Dillinger et al.	366/13

OTHER PUBLICATIONS

PCT Preliminary Report on Patentability for parent application PCT/US07/024420 Jun. 11, 2009.

* cited by examiner

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(57) **ABSTRACT**

A drywall trim application device that can hold a large role of drywall flex corner trim material and, as the material is being dispensed, pre-crease or form the material for use on an inside or outside corner, or any angle within the range of the trim material, apply a mastic material (drywall mud, adhesive or any other bonding medium) to the flex trim material, and cut the material at any desired length automatically. Measurements may be either input by hand or downloaded from an electronic measurement tool into this device. This invention can generally store multiple measurements such as length and angles, measure the length of flex trim material as it is dispensed from the device, crease the material, apply predetermined amount of mastic, and automatically cut the flex trim material to each length previously input.

8 Claims, 4 Drawing Sheets

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **13/151,002**

(22) Filed: **Jun. 1, 2011**

(65) **Prior Publication Data**

US 2012/0132341 A1 May 31, 2012

Related U.S. Application Data

(62) Division of application No. 11/633,086, filed on Nov. 30, 2006, now Pat. No. 7,958,923.

(60) Provisional application No. 60/742,797, filed on Dec. 6, 2005.

(51) **Int. Cl.**

B44C 7/04 (2006.01)

E04B 2/00 (2006.01)

(52) **U.S. Cl.** **156/526**; 156/575; 156/578; 156/579; 427/208.4; 427/293

(58) **Field of Classification Search** 156/526, 156/574, 575, 577, 578, 579; 427/207.1, 427/208.4, 208.6, 293, 434.2

See application file for complete search history.

